

An Essay
On
Biliary Calculi

Respectfully Submitted

To the Faculty
Of the
Homoeopathic Medical College
Of Pennsylvania

For the Degree of Doctor of Medicine

By

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In the earlier periods of Medical Science, the Liver was the subject of
The frequency with which we are called upon to treat persons suffering from the passage of biliary Calculi, has led me to choose it as the subject of a few remarks, in this required essay. But it is not with the expectation of affording a satisfactory explanation, of the phenomena attending the formation and development of these Calculous concretions, that I select it for consideration; but rather with a hope of attracting attention more particularly to the subject and its homoeopathic treatment.

In the earlier periods of Medical Science, the Liver was the subject of much attention; its large size; its existence in animals differing so widely in organization, and the supposed relation of its secretion to the process of digestion, were thought sufficient evidence of its importance, in the animal Economy, and the serious evils that must result from a derangement of its function. Nor was the Liver alone the subject of particular attention, but also gall-Stones. Lehmann says, "Few points in pathological Chemistry, in the earlier periods of that Science, have received so much attention as gall-Stones."

Though few modern authors have deemed the subject of sufficient importance to more than briefly allude to it; and that only incidentally, while describing some other hepatic affection. While page after page has been written describing the nature and cause of urinary Calculi, and the special treatment to be adopted, that of biliary Calculi, has been almost wholly forgotten; but this is probably owing more to the unsatisfactory state of our knowledge respecting the liver, than to its being considered less important than formerly.

Chemistry has taught us the composition of the different variety of these Calculi; but we still remain ignorant of the peculiar condition of the organism necessary to produce these effects.

According to the analyses of Lehmann, and other eminent Chemists, the variety of gall-stones most commonly met with, consist for the most part of Cholesterolin, with more or less coloring matter of the bile, collected around a nucleus, generally formed from the bile pigment with lime and mucous. Though the nucleus is not always thus formed, from cases reported it would

seem that almost any point, or solid substance, may serve this purpose. Dr. Budd in his treatise on "Diseases of the Liver" instances a case, related by Bouisson, where a large gall-stone had formed about a dried Lumbric worm; and another, where the stone had formed around a pin in the gall-bladder; and still another, where the nucleus of a gall-stone, the size of a prune, contained globules of Mercury; "This stone, composed chiefly of Cholesterin, was taken from a person who had been treated with Mercury for Syphilis."

But in order for the formation

of these Calculi; the pigment-bile
and Cholesterin. Spoken of above
as entering into their composition,
must exist in the bile in an in-
soluble form, which is not the
case while this fluid is in a nor-
mal condition. "Direct experiment,"
says Lehmann, "shows that both
the pigment-bile and Cholesterin
are held in solution by taurocholic
acid or taurocholate of soda".

May we not then, reasonably
consider, the prime cause of gall-
stones to be a deficiency of this
acid or salt in the bile? Whether
this be really the cause, or what con-
dition of the system is necessary
to produce this deficiency, we will

leave, at present, for abler heads to decide. Fatty degeneration of the coats of the gall-bladder, a Cancerous diathesis, sedentary occupations and confinement, mental anxiety and trouble, have all been reckoned among the causes of gall-stones.

When gall-stones have formed in the gall-bladder, they may exist there for a time, without giving rise to any unpleasant symptoms.

In a Post-Mortem Examination recently made by my preceptor, Dr. Johnson, on an old lady, who had died suddenly, the gall-bladder was found filled with Calculi, 174 in number, varying

in size from a small pea to that of a hazel nut; The doctor had treated her, some years previous to this, for passing gall-stones, since which time, she had enjoyed good health up to her death; which resulted from cerebral congestion, as the post-mortem clearly showed. Sometimes however inflammation, and even ulceration, are set up by the mechanical irritation produced by the gall-stones, while in the gall-bladder.

But the most frequent and painful effects are produced by their passage through the Cystic and Common ducts.

The symptoms preceding an attack from the passage of gall-

often so excruciating that the patient bends himself double, or rolls about the floor, at the same time pressing his hands against the pit of the stomach, which sometimes eases the pain. The severer paroxysms produce great exhaustion; the pulse become slow and weak, the face pallid and the whole body covered with cold sweat. The pain in the region of the gall-bladder is often referred to the angle of the right scapula, with a sense of constriction around the lower part of the chest. A sympathetic disorder of the stomach, is also set up, giving rise to more or less vomiting.

The paroxysms usually last from five to six hours, and in some instances much longer; when suddenly the pain ceases, and the patient is comparatively easy again.

Persons sometimes remark that they can feel something slip or give way, when they will feel instantaneous relief. But cases do not always terminate thus favourably; the irritation caused by the passage of the stone may set up an inflammatory action in the walls of the ducts, which may extend to gall-bladder, or the substance of the liver itself, and serious results ensue.

"If a gall-stone pass slowly,

and be large enough to completely block up the duct, and prevent the flow of bile into the intestine. The distention of the gall-bladder may be so rapid and so great that on some trifling effort, as that of coughing or vomiting it may burst, especially if its coats were previously diseased, and its contents poured into the cavity of the peritoneum. Several instances of this kind are on record."

Again permanent jaundice, and other serious evils may arise from a gall-stone becoming fastened in the common duct and either partially or wholly stopping the flow of bile into the intestine; but these

Cases are not of very frequent occurrence, for a gall-stone that has passed through the Cystic duct can generally pass through the common duct also.

With respect to the treatment of this painful and distressing malady, but little has been said or written by our school, calculated to guide the student in the choice of the appropriate remedies. We have examined various works on Homeopathy for the desired information, but as yet have only been able to find a few remedies suggested as likely to prove effective.

Jahr says, "I recommend Cal. hepatic. Scl. and Sulph." But with these remedies alone, I fear we will fail

to relieve our patient. They doubtless
are good remedies for certain biliary
derangements, but will not do
to depend upon in an acute attack
of Calculus biliaris.

The remedies used by my preceptor,
and which have proved very suc-
cessfull in a number of cases, so
far as I have been able to observe,
are, Colocyath, Chamomilla, Nux Vomica,
and Sulphur. When called to a
patient suffering from this disease,
he has him placed in a warm bath,
or if this cannot be obtained, has
his feet immersed in water as
hot as can be borne, and warm
fomentations applied to the
epigastrium. The medicine applic-

able nine times out of ten is, Colic-nth. The indications for its use are, violent Cramp-like or cutting pains in the region of the pylorus; body bent forward with an inclination to press against the abdomen; temperature of the skin natural or covered with cold sweat; pulse weak and slightly increased; tongue coated with a yellowish fur; face pale and indicative of intense suffering; bitter taste in the mouth, with nausea and bilious vomiting; sensation of faintness with coldness and shuddering; apprehension of speedy death. Where these symptoms are prominent, Colic in water every ten or fifteen minutes may

be relied upon with every prospect of success. Chamomilla is a valuable remedy when the attack was induced by a fit of anger, or when it occurs in a nervous or hysterical female, and when bilious vomiting is a prominent symptom; the pains are of a dull aching character, accompanied by oppression and difficulty of breathing.

After the severity of the attack has passed off, and to correct the secretions of the liver, the Doctor administers Sulph. once or twice daily for a week, followed by Sulph. twelfth in the same way. This alternation of Sulph. and Sulphur, he continues for several weeks,

and the result has shown
that it is both commendable
and worthy of imitation.

Yours
Recommendation

Respectfully submitted to the Faculty
of the
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For the Degree of Doctor of Medicine

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